AUTHOR INDEX

Abd El-Rahman, Mohamed
see Ghaly, Ashraf, (disc), GT Nov. 91, p1669-1690

Abdel-Baki, Sherif
disc. (of Bearing Capacity of Eccentrically Obliquely Loaded Footing, by Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690) with G. P. Raymond, GT Feb. 93, p394-396

Abdel-Ghaffar, M. E. M.
see Mesri, G., GT Aug. 93, p1229-1249

Åberg, B.
Washout of Grains from Filtered Sand and Gravel Materials, GT Jan. 93, p36-53

Acar, Yalcin B.
see Puppala, Anand J., GT Dec. 93, p1990-2001

Agarwal, R. K.
see Saran, Swami, GT Nov. 91, p1669-1690

Ahmad, Shahid
see Fan, Ke, GT Dec. 91, p1860-1879

Airey, D. W.
Triaxial Testing of Naturally Cemented Carbonate Soil, GT Sept. 93, p1379-1398

Alfaro, Marolo C.
see Bergado, Dennes T., GT Oct. 91, p1509-1530

Al-Khafaji, A. W. N.
Equations for Compression Index Approximation, with O. B. Andersland, GT Jan. 92, p148-153
disc: Claudio Cherubini, GT Apr. 93, p800-801
disc: C. I. Giasi and F. M. Guadagno, GT Apr. 93, p801-802

Al-Sanad, Hasan A.
Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, with Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638

Anagnostopoulos, Christos
Interaction of Axial and Lateral Pile Responses, with Michael Georgiadis, GT Apr. 93, p793-798

Anagnostou, Georgios
Significant Parameters in Elastoplastic Analysis of Underground Openings, with Kalman Kovari, GT Mar. 93, p401-419

Andersen, Knut H.
Field Tests of Anchors in Clay. II: Predictions and Interpretation, with Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549
see Dyvik, Rune, GT Oct. 93, p1515-1531

Andersland, O. B.
see Al-Khafaji, A. W. N., GT Jan. 92, p148-153

Arulanandan, K.
Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, with H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731
Project Velacs—Control Test Results, with R. F. Scott, GT Aug. 93, p1276-1292

Asakami, Hiroshi
see Bergado, Dennes T., GT Oct. 91, p1509-1530

Athanasopoulos, G. A.
Preconsolidation versus Aging Behavior of Kaolinite Clay, GT June 93, p1060-1066

Ayala, Gustavo
see O'Rourke, Michael, GT Sept. 93, p1490-1498

Babu, G. L. Siva Kumar
see Pandian, N. S., GT Apr. 92, p622-627

Babu, G. L. Sivakumar
see Pandian, N. S., GT May 93, p826-839
see Pandian, N. S., GT May 93, p840-861

Baecher, Gregory B.
see DeGroot, Don J., GT Jan. 93, p147-166

Balachandran, S.
see Indraratna, B., GT Jan. 92, p12-33

Balasubramaniam, A. S.
see Bergado, Dennes T., GT Oct. 91, p1509-1530
see Indraratna, B., GT Jan. 92, p12-33
see Loganathan, N., GT Aug. 93, p1185-1206

Banerjee, P. K.
disc. (of Kinematic Seismic Response of Single Piles and Pile Groups, by Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879), GT Apr. 93, p808-809

Banerjee, Sunirmal
Design Charts for Double-Walled Cofferdams, GT Feb. 93, p214-222

Bardet, J. P.
Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, with M. Kapuskar, GT Mar. 93, p543-562

Baziw, Erick J.
Digital Filtering Techniques for Interpreting Seismic Cone Data, GT June 93, p998-1018

Benson, Craig H.
Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, with Majdi A. Othman, GT Feb. 93, p276-294
Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, GT Mar. 93, p471-486

Bergado, D. T.
see Loganathan, N., GT Aug. 93, p1185-1206

Bergado, Dennes T.
Smear Effects of Vertical Drains on Soft Bangkok Clay, with Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530
disc: A. J. Lutenegger and Don J. DeGroot, GT Jan. 93, p181-184
clo: GT Jan. 93, p184-185

Bezuijen, A.
see van Rhee, C., GT Aug. 92, p1236-1240

Bjerager, Peter
see Ronold, Knut O., GT Mar. 92, p363-376

Bond, A. J.
see Lehane, B. M., GT Jan. 93, p19-35

Borja, Ronaldo I.
Nonlinear Response of Vertically Oscillating Rigid Foundations, with Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911
see Kishnani, Sunil S., GT May 93, p912-928

Brand, Alfred H.
see Kaufman, James L., (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90

Brand, Edward W.
Durability of Geotextiles to Outdoor Exposure in Hong Kong, with P. L. Richard Pang, GT July 91, p979-1000
disc: Michael Gordon Dickson, GT Apr. 93, p802-805
clo: GT Apr. 93, p805-807
disc. (of Performance of Test Embankment Constructed to Failure on Soft Marine Clay, by B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33), GT Aug. 93, p1321-1323

Brenner, R. Peter
see Al-Sanad, Hasan A., GT Apr. 93, p622-638

Budhu, M.
see Richards, R., Jr., GT Apr. 93, p662-674

Bysveen, Steinar
see Andersen, Knut H., GT Oct. 93, p1532-1549

Carrier, W. David, III.
disc. (of Hyperbolic Method for Consolidation Analysis, by Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737), GT Jan. 93, p186-187

Carter, John P.
Analysis of Laterally Loaded Shafts in Rock, with Fred H. Kulhawy, GT June 92, p839-855
disc: Anthony M. DiGioia, Jr. and Luis Rojas-Gonzalez, GT Dec. 93, p2014-2015
disc: Mohammed A. Gabr, GT Dec. 93, p2015-2018
clo: GT Dec. 93, p2018-2020

Castro, Gonzalo
Steady-State Strength Analysis of Lower San Fernando Dam Slide, with Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427
disc: Robert W. Day, GT Aug. 93, p1313
disc: H. John Hovland, GT Aug. 93, p1313-1314
disc: John L. Vrymoed, GT Aug. 93, p1314-1317
clo: GT Aug. 93, p1317-1320

Cedergren, Harry R.
disc. (of Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, by Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228), GT Feb. 93, p382-383

Chameau, J-L.
see Sivakugan, N., GT June 93, p973-983

Chang, Ching S.
see Ma, Lun, GT Nov. 93, p1679-1695

Charlie, Wayne A.
Time-Dependent Cone Penetration Resistance Due to Blasting, with Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215
disc: Jack I. Clark, Fanyu Zhu and Michael Paulin, GT Dec. 93, p2007-2008
disc: M. G. Jefferies and B. T. Rogers, GT Dec. 93, p2008-2012
clo: GT Dec. 93, p2012-2013

Chen, Yit-Jin
Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, with Fred H. Kulhawy, GT Nov. 93, p1732-1750

Cherubini, Claudio
disc. (of Equations for Compression Index Approximation, by A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153), GT Apr. 93, p800-801

Chowdhury, R. N.
Rational Polynomial Technique in Slope Reliability Analysis, with D. W. Xu, GT Dec. 93, p1910-1928

Christophersen, Hans Peter
see Dyvik, Rune, GT Oct. 93, p1515-1531

Chu, J.
Instability of Granular Soils Under Strain Path Testing, with S-C. R. Lo and I. K. Lee, GT May 93, p874-892

Chu, Jian
disc. (of Static Instability and Liquefaction of Loose Fine Sandy Slopes, by Poul V. Lade, GT Jan. 92, p51-71), GT Feb. 93, p385-387

Clark, Jack I.
disc. (of Time-Dependent Cone Penetration Resistance Due to Blasting, by Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215) with Fanyu Zhu and Michael Paulin, GT Dec. 93, p2007-2008

Clough, G. Wayne
EPB Shield Tunneling in Mixed Face Conditions, with Eric Leca, GT Oct. 93, p1640-1656

Conte, Enrico
Settlement Analysis of Layered Soil Systems by the Stiffness Method, with Giovanni Dente, GT Apr. 93, p780-785

Crouse, C. B.
Dynamic Tests of Pipe Pile in Saturated Peat, with Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567

Dakoulas, Panos
Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, GT Nov. 93, p1696-1716
see Yu, Shinyuan, GT Oct. 93, p1568-1586

Daniel, David E.
Compacted Clay Liners and Covers for Arid Sites, with Yung-Kwang Wu, GT Feb. 93, p223-237
see Kim, Woon-Hyung, GT July 92, p1083-1097
see Shelley, Thomas L., GT Jan. 93, p54-68

Davis, R. O.
Stability of Motions of Translational Landslides, with C. S. Desai and N. R. Smith, GT Mar. 93, p420-432

Day, Robert W.
Effective Cohesion for Compacted Clay, GT Apr. 92, p611-619
disc: Ron Heinzen, GT July 93, p1180
clo: GT July 93, p1180-1182
Expansion Potential According to *Uniform Building Code*, GT June 93, p1067-1071
disc. (of Backfill-Stiffened Foundation Wall Design, by Robert Nicholls, GT Nov. 92, p1822-1836), GT Dec. 93, p2022-2024
disc. (of Estimation Earth Pressures Due to Compaction, by J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847), GT July 93, p1162
disc. (of Modeling Strength of Sandy Gravel, by Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935), GT Nov. 93, p1858
disc. (of Steady-State Strength Analysis of Lower San Fernando Dam Slide, by Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427), GT Aug. 93, p1313

de Buhan, P.
disc. (of Influence of Seepage on Stability of Sandy Slope, by C. van Rhee and A. Bezuijen, GT Aug. 92, p1236-1240) with L. Dormieux, GT Dec. 93, p2004-2006

De Nicola, Anthony
Tensile and Compressive Shaft Capacity of Piles in Sand, with Mark F. Randolph, GT Dec. 93, p1952-1973

DeGroot, Don J.
Estimating Autocovariance of In-Situ Soil Properties, with Gregory B. Baecher, GT Jan. 93, p147-166
see Lutenegger, A. J., (disc), GT Oct. 91, p1509-1530

Dente, Giovanni
see Conte, Enrico, GT Apr. 93, p780-785

Desai, C. S.
Constitutive Model for Cyclic Behavior of Clays. II: Applications, with G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748
see Davis, R. O., GT Mar. 93, p420-432
see Fishman, K. L., GT Aug. 93, p1293-1307
see Wathugala, G. W., GT Apr. 93, p714-729

Desai, Milind R.
see Nazarian, Soheil, GT July 93, p1094-1111

Devgan, Ashutosh
see Kemeny, John M., GT July 93, p1144-1160

D'Hollander, Raymond D.
disc. (of Static Instability and Liquefaction of Loose Fine Sandy Slopes, by Poul V. Lade, GT Jan. 92, p51-71), GT Feb. 93, p387-389

Dickson, Michael Gordon
disc. (of Durability of Geotextiles to Outdoor Exposure in Hong Kong, by Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000), GT Apr. 93, p802-805

DiGioia, Anthony M., Jr.
disc. (of Analysis of Laterally Loaded Shafts in Rock, by John P. Carter and Fred H. Kulhawy, GT June 92, p839-855) with Luis Rojas-Gonzalez, GT Dec. 93, p2014-2015

Doehring, Donald O.
see Charlie, Wayne A., GT Aug. 92, p1200-1215

Dormieux, L.
see de Buhan, P., (disc), GT Aug. 92, p1236-1240

Dounias, George T.
Numerical Analysis of Drained Direct and Simple Shear Tests, with David M. Potts, GT Dec. 93, p1870-1891

Drumm, Eric C.
Subsidence Effects on Embankments: Combined Empirical-FEM Approach, with William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178

Duggal, Atul
see Phatak, D. R., (disc), GT July 91, p1042-1060

Duncan, J. M.
Estimation Earth Pressures Due to Compaction, with G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847
err: GT Mar. 92, p519
disc: Robert W. Day, GT July 93, p1162
disc: Ashraf Ghaly, GT July 93, p1162-1165
disc: G. Mesri and T. M. Hayat, GT July 93, p1165-1168
disc: G. Mesri, T. M. Hayat and M. Shahien, GT July 93, p1168-1171
disc: Ralph B. Peck, GT July 93, p1171-1172
clo: GT July 93, p1172-1177

Duncan, J. Michael
Limitations of Conventional Analysis of Consolidation Settlement, GT Sept. 93, p1331-1359

Dyvik, Rune
Field Tests of Anchors in Clay. I: Description, with Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531
see Andersen, Knut H., GT Oct. 93, p1532-1549

Edil, Tuncer B.
see Othman, Majdi A., GT Mar. 93, p590-597

El-Jayyousi, Jalal
see Gunnink, Brett W., GT June 93, p1019-1036

Elistein-Russek, Abraham
disc. (of Elastic Solutions for Arbitrarily Shaped Foundations, by K. S. Li, GT June 92, p938-942), GT Nov. 93, p1865-1868

Elms, D. G.
see Richards, R., Jr., GT Apr. 93, p662-674

Elsworth, Derek
Analysis of Piezocone Dissipation Data Using Dislocation Methods, GT Oct. 93, p1601-1623

Elton, D. J.
see Juang, C. H., GT Dec. 91, p1920-1931

Fan, Ke
Kinematic Seismic Response of Single Piles and Pile Groups, with George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879
disc: P. K. Banerjee, GT Apr. 93, p808-809

clo: GT Apr. 93, p809

Feda, J.
Service Load of Short, Large-Diameter Bored Piles, GT Sept. 93, p1482-1489

Fishman, K. L.
Field Behavior of Instrumented Geogrid Soil Reinforced Wall, with C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307

Fox, Nathaniel S.
see Lawton, Evert C., GT Feb. 93, p257-275

Fragaszy, Richard J.
Modeling Strength of Sandy Gravel, with James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935
disc: Robert W. Day, GT Nov. 93, p1858
clo: GT Nov. 93, p1858-1859

Frank, R.
see Lehane, B. M., GT Jan. 93, p19-35

Gabr, Mohammed A.
disc. (of Analysis of Laterally Loaded Shafts in Rock, by John P. Carter and Fred H. Kulhawy, GT June 92, p839-855), GT Dec. 93, p2015-2018
disc. (of Model for Capacity of Single Piles in Sand Using Fuzzy Sets, by C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931), GT Jan. 93, p191-193

Gazetas, George
see Fan, Ke, GT Dec. 91, p1860-1879

Georgiadis, Michael
see Anagnostopoulos, Christos, GT Apr. 93, p793-798

Ghaly, Ashraf
Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, with Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470
disc: H. John Hovland, GT Feb. 93, p391-392
clo: GT Feb. 93, p392-394
disc. (of Bearing Capacity of Eccentrically Obliquely Loaded Footing, by Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690) with Adel Hanna and Mohamed Abd El-Rahman, GT Feb. 93, p396-398
disc. (of Estimation Earth Pressures Due to Compaction, by J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847), GT July 93, p1162-1165

Giasi, C. I.
disc. (of Equations for Compression Index Approximation, by A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153) with F. M. Guadagno, GT Apr. 93, p801-802

Gilbert, Robert B.
see Tang, Wilson H., (disc), GT Mar. 92, p363-376

Goh, Anthony T. C.
Behavior of Cantilever Retaining Walls, GT Nov. 93, p1751-1770
Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, with Joo-Hwa Tay, GT May 93, p811-825

Gong, Yiming
see Zhang, Yaonian, GT Mar. 93, p584-589

Gray, Donald H.
see Qian, Xuede, GT Feb. 93, p295-314

Greco, Venanzio R.
disc. (of Settlements of Shallow Foundations on Cohesionless Soils, by Basil P. Papadopoulos, GT Mar. 92, p377-393), GT Aug. 93, p1310-1312

Griffiths, D. V.
Analysis of Delayed Failure in Sloping Excavations, with C. O. Li, GT Sept. 93, p1360-1378

Gu, W. H.
Progressive Failure of Lower San Fernando Dam, with N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349

Guadagno, F. M.
see Giasi, C. I., (disc), GT Jan. 92, p148-153

Gunnink, Brett W.
Soil-Fabric Measurement Using Phase Transition Porosimetry, with Jalal El-Jayyousi, GT June 93, p1019-1036

Hagaman, Roberta M.
see Kemeny, John M., GT July 93, p1144-1160

Hagerty, D. J.
see Hagerty, M. M., GT Jan. 93, p1-18

Hagerty, M. M.
One-Dimensional High-Pressure Compression of Granular Media, with D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18

Halabe, Udaya B.
Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, with Kenneth R. Maser, GT Mar. 93, p563-582

Halim, Irwan S.
Site Exploration Strategy for Geologic Anomaly Characterization, with Wilson H. Tang, GT Feb. 93, p195-213

Hamel, James V.
disc. (of Foundation Studies in a Fault Zone and a Steep Valley Slope, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), by James L. Kaufman and Alfred H. Brand, p73-90), GT Jan. 93, p180

Hamilton, Jed M.
see Murff, James D., GT Jan. 93, p91-107

Han, Yingcai
see Vaziri, Hans, GT Sept. 93, p1414-1430

Hanna, Adel
see Ghaly, Ashraf, GT Oct. 91, p1463-1470
see Ghaly, Ashraf, (disc), GT Nov. 91, p1669-1690

Hanna, Mikhail
see Ghaly, Ashraf, GT Oct. 91, p1463-1470

Hansen, Svein Borg
see Dyvik, Rune, GT Oct. 93, p1515-1531

Hansteen, Ole E.
see Andersen, Knut H., GT Oct. 93, p1532-1549

Hashash, Youssef M. A.
see Whittle, Andrew J., GT Jan. 93, p69-90

Hayat, T. M.
see Mesri, G., (disc), GT Dec. 91, p1833-1847
see Mesri, G., (disc), GT Dec. 91, p1833-1847

Hazen, Glenn A.
see Rauch, Alan F., GT Mar. 93, p433-452

Heinzen, Ron
disc. (of Effective Cohesion for Compacted Clay, by Robert W. Day, GT Apr. 92, p611-619), GT July 93, p1180

Hirao, Kazutoshi
see Hyde, Adrian F. L., GT Nov. 93, p1771-1789

Hite, D. R.
see Hagerty, M. M., GT Jan. 93, p1-18

Ho, Carlton L.
see Fragaszy, Richard J., GT June 92, p920-935

Holtz, R. D.
see Sivakugan, N., GT June 93, p973-983

Horvath, John S.
Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, GT Feb. 93, p358-364
err: GT July 93, p1183

Houston, Sandra L.
Comparison of Rock Correction Methods for Compaction of Clayey Soils, with Kenneth D. Walsh, GT Apr. 93, p763-778
see Walsh, Kenneth D., GT May 93, p862-873

Houston, William N.
see Walsh, Kenneth D., GT May 93, p862-873

Hovland, H. John
disc. (of Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, by Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470), GT Feb. 93, p391-392
disc. (of Steady-State Strength Analysis of Lower San Fernando Dam Slide, by Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427), GT Aug. 93, p1313-1314

Hryciw, Roman D.
Stress-History–Based Model for G^e of Cohesionless Soils, with Thomas G. Thomann, GT July 93, p1073-1093

Hsuan, Y. G.
Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, with R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855

Huang, Chiung-Shiann
see Wu, Tien H., GT Jan. 93, p127-146

Huang, Scott L.
Slope Failure Analysis Using Local Minimum Factor-of-Safety Approach, with Kenji Yamasaki, GT Dec. 93, p1974-1987

Husein, Abdallah I.
see Liang, Robert Y., GT Apr. 93, p694-713

Hushmand, Behnam
see Crouse, C. B., GT Oct. 93, p1550-1567

Hyde, Adrian F. L.
Stability Criteria for Marine Clay Under One-Way Cyclic Loading, with Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789

Indraratna, B.
Performance of Test Embankment Constructed to Failure on Soft Marine Clay, with A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33
disc: Edward W. Brand, GT Aug. 93, p1321-1323
disc: Siew-Ann Tan, GT Aug. 93, p1323-1326
clo: GT Aug. 93, p1326-1329

Inoue, Toshiyuki
see Tan, Thiam-Soon, GT Nov. 91, p1723-1737

Ismael, Nabil F.
Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, GT Mar. 93, p453-470
see Al-Sanad, Hasan A., GT Apr. 93, p622-638

Jardine, R. J.
see Lehane, B. M., GT Jan. 93, p19-35

Jefferies, M. G.
disc. (of Time-Dependent Cone Penetration Resistance Due to Blasting, by Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215) with B. T. Rogers, GT Dec. 93, p2008-2012

Jones, Norman L.
Subsurface Characterization With Solid Models, with Stephen G. Wright, GT Nov. 93, p1823-1839

Juang, C. H.
Model for Capacity of Single Piles in Sand Using Fuzzy Sets, with J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931
disc: Mohammed A. Gabr, GT Jan. 93, p191-193
clo: GT Jan. 93, p193

Juran, Ilan
Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, with Oraccio Riccobono, GT July 91, p1042-1060
disc: D. R. Phatak and Atul Duggal, GT Jan. 93, p180-181

Kabilamany, K.
see Arulanandan, K., GT Nov. 93, p1717-1731

Kagawa, Takaaki
Moduli and Damping Factors of Soft Marine Clays, GT Sept. 92, p1360-1375
disc: Dong-Soo Kim, GT Dec. 93, p2020-2022
clo: GT Dec. 93, p2022

Kane, William F.
see Drumm, Eric C., GT Jan. 93, p173-178

Kapuskar, M.
see Bardet, J. P., GT Mar. 93, p543-562

Kaufman, James L.
Foundation Studies in a Fault Zone and a Steep Valley Slope, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), with Alfred H. Brand, p73-90
disc: James V. Hamel, GT Jan. 93, p180

Kausel, Eduardo
see Fan, Ke, GT Dec. 91, p1860-1879

Kaynia, Amir
see Fan, Ke, GT Dec. 91, p1860-1879

Keller, Thomas O.
see Castro, Gonzalo, GT Mar. 92, p406-427

Kellogg, C. Gary
Vertical Earth Loads on Buried Engineered Works, GT Mar. 93, p487-506

Kemeny, John M.
Analysis of Rock Fragmentation Using Ditigal Image Processing, with Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160

Khire, Milind V.
see Lawton, Evert C., GT Feb. 93, p257-275

Kim, Dong-Soo
disc. (of Moduli and Damping Factors of Soft Marine Clays, by Takaaki Kagawa, GT Sept. 92, p1360-1375), GT Dec. 93, p2020-2022

Kim, Woon-Hyung
Effects of Freezing on Hydraulic Conductivity of Compacted Clay, with David E. Daniel, GT July 92, p1083-1097
disc: Nandakumaran Paruvakat, GT Nov. 93, p1862-1864
disc: George F. Sowers, GT Nov. 93, p1864-1865
clo: GT Nov. 93, p1865

Kishnani, Sunil S.
Seepage and Soil-Structure Interaction Effects in Braced Excavations, with Ronaldo I. Borja, GT May 93, p912-928

Kodikara, Jayantha K.
Axial Response of Tapered Piles in Cohesive Frictional Ground, with Ian D. Moore, GT Apr. 93, p675-693

Koerner, R. M.
see Hsuan, Y. G., GT Nov. 93, p1840-1855

Konrad, J.-M.
Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, with B. T. Wagg, GT May 93, p929-947

Kotzias, Panaghiotis C.
Field Quality Control on Earthdam: Statistical Graphics for Gauging, with Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964

Kountouris, Panayotis J.
see Kotzias, Panaghiotis C., GT May 93, p957-964

Kovari, Kalman
see Anagnostou, Georgios, GT Mar. 93, p401-419

Kramer, Steven L.
see Crouse, C. B., GT Oct. 93, p1550-1567

Kuhn, Matthew R.
New Perspectives on Soil Creep, with James K. Mitchell, GT Mar. 93, p507-524

Kulhawy, Fred H.
see Carter, John P., GT June 92, p839-855
see Chen, Yit-Jin, GT Nov. 93, p1732-1750

Kumbhojkar, A. S.
Numerical Evaluation of Terzaghi's N_γ, GT Mar. 93, p598-607

Lade, Poul V.
Static Instability and Liquefaction of Loose Fine Sandy Slopes, GT Jan. 92, p51-71
disc: Jian Chu, GT Feb. 93, p385-387
disc: Raymond D. D'Hollander, GT Feb. 93, p387-389
clo: GT Feb. 93, p389-391

Lawton, Evert C.
Reinforcement of Soils by Multioriented Geosynthetic Inclusions, with Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275

Leca, Eric
see Clough, G. Wayne, GT Oct. 93, p1640-1656

Lee, C. Y.
Cyclic Response of Axially Loaded Pile Groups, GT Sept. 93, p1399-1413
Pile Group Settlement Analysis by Hybrid Layer Approach, GT June 93, p984-997
Pile Groups under Negative Skin Friction, GT Oct. 93, p1587-1600
Settlement of Pile Groups—Practical Approach, GT Sept. 93, p1449-1461

Lee, I. K.
see Chu, J., GT May 93, p874-892

Lee, Seng-Lip
see Tan, Siew-Ann, GT Feb. 92, p209-228
see Tan, Thiam-Soon, GT Nov. 91, p1723-1737

Lee, V. W.
Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, GT Jan. 93, p108-126

Lehane, B. M.
Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, with R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35

Li, C. O.
see Griffiths, D. V., GT Sept. 93, p1360-1378

Li, K. S.
Elastic Solutions for Arbitrarily Shaped Foundations, GT June 92, p938-942
disc: Abraham Ellstein-Russek, GT Nov. 93, p1865-1868
clo: GT Nov. 93, p1868

Liang, Kee-Ming
see Tan, Siew-Ann, GT Feb. 92, p209-228

Liang, Robert Y.
Simplified Dynamic Method for Pile-Driving Control, with Abdallah I. Husein, GT Apr. 93, p694-713
Wave Equation Parameters from Driven-Rod Test, with Yuanjing Sheng, GT June 93, p1037-1057

Liu, Chun
see Zhang, Yaonian, GT Mar. 93, p584-589

Lo, S-C. R.
see Chu, J., GT May 93, p874-892

Loganathan, N.
Deformation Analysis of Embankments, with A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206

Lord, A. E., Jr.
see Hsuan, Y. G., GT Nov. 93, p1840-1855

Lutenegger, A. J.
disc. (of Smear Effects of Vertical Drains on Soft Bangkok Clay, by Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530) with Don J. DeGroot, GT Jan. 93, p181-184

Ma, Guidung
see Zhang, Yaonian, GT Mar. 93, p584-589

Ma, Lan
Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, with Ching S. Chang, GT Nov. 93, p1679-1695

Maser, Kenneth R.
see Halabe, Udaya B., GT Mar. 93, p563-582

Masih, Rusk
Structural Stiffness Influence on Soil Consolidation, GT Jan. 93, p168-172

Masood, Tahir
Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, with James K. Mitchell, GT Oct. 93, p1624-1639

Matasović, Neven
Cyclic Characterization of Liquefiable Sands, with Mladen Vucetic, GT Nov. 93, p1805-1822

Matlock, H.
see Desai, C. S., GT Apr. 93, p730-748

Meek, Jethro W.
Approximate Green's Function for Surface Foundations, with John P. Wolf, GT Oct. 93, p1499-1514

Mesri, G.
Cohesion Intercept in Effective Stress-Stability Analysis, with M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249
disc. (of Estimation Earth Pressures Due to Compaction, by J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847) with T. M. Hayat, GT July 93, p1165-1168
disc. (of Estimation Earth Pressures Due to Compaction, by J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847) with T. M. Hayat and M. Shahien, GT July 93, p1168-1171

Michalowski, Radoslaw L.
Bearing Capacity of Nonhomogeneous Clay Layers under Embankments., with Lei Shi, GT Oct. 93, p1657-1669

Mitchell, James K.
see Kuhn, Matthew R., GT Mar. 93, p507-524
see Masood, Tahir, GT Oct. 93, p1624-1639

Mitchell, Robert
see Crouse, C. B., GT Oct. 93, p1550-1567

Monley, Gregory J.
Tensile Reinforcement Effects on Bridge-Approach Settlement, with Jonathan T. H. Wu, GT Apr. 93, p749-762

Moore, Ian D.
see Kodikara, Jayantha K., GT Apr. 93, p675-693

Morgenstern, N.
see Rajani, B., GT Sept. 93, p1431-1448

Morgenstern, N. R.
see Gu, W. H., GT Feb. 93, p333-349

Muraleetharan, K. K.
see Arulanandan, K., GT Nov. 93, p1717-1731

Murff, James D.
P-Ultimate for Undrained Analysis of Laterally Loaded Piles, with Jed M. Hamilton, GT Jan. 93, p91-107

Nagaraj, T. S.
see Pandian, N. S., GT Apr. 92, p622-627
see Pandian, N. S., GT May 93, p826-839
see Pandian, N. S., GT May 93, p840-861

Najjar, Yacoub
Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, with Musharraf Zaman, GT Nov. 93, p1790-1804

Nazarian, Soheil
Automated Surface Wave Method: Field Testing, with Milind R. Desai, GT July 93, p1094-1111
see Yuan, Deren, GT July 93, p1112-1126

Nicholls, Robert
Backfill-Stiffened Foundation Wall Design, GT Nov. 92, p1822-1836
disc: Robert W. Day, GT Dec. 93, p2022-2024
clo: GT Dec. 93, p2024

Nowatzki, E. A.
see Orman, M. E., GT Feb. 93, p365-373

Orlowski, Anthony C.
see Drumm, Eric C., GT Jan. 93, p173-178

Orman, M. E.
Prediction of Bedding Intrusion into Low-Strength Subgrades, with E. A. Nowatzki, GT Feb. 93, p365-373

O'Rourke, Michael
Pipeline Damage Due to Wave Propagation, with Gustavo Ayala, GT Sept. 93, p1490-1498

Othman, Majdi A.
Force-Displacement Behavior of Flexible Plate Anchors, with Tuncer B. Edil, GT Mar. 93, p590-597
see Benson, Craig H., GT Feb. 93, p276-294

Pandian, N. S.
Generalized State Parameter for Partly Saturated Soils, with T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627
disc: Yakov M. Reznik, GT July 93, p1177-1179
clo: GT July 93, p1179-1180
Tropical Clays. I: Index Properties and Microstructural Aspects, with T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839
Tropical Clays. II: Engineering Behavior, with T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861

Pang, P. L. Richard
see Brand, Edward W., GT July 91, p979-1000

Papadopoulos, Basil P.
Settlements of Shallow Foundations on Cohesionless Soils, GT Mar. 92, p377-393
disc: Venanzio R. Greco, GT Aug. 93, p1310-1312

Paruvakat, Nandakumaran
disc. (of Effects of Freezing on Hydraulic Conductivity of Compacted Clay, by Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097), GT Nov. 93, p1862-1864

Paulin, Michael
see Clark, Jack I., (disc), GT Aug. 92, p1200-1215

Peck, Ralph B.
disc. (of Estimation Earth Pressures Due to Compaction, by J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847), GT July 93, p1171-1172

Perić, Dunja
Prediction of Plastic Localization Using MRS-Lade Model, with Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661

Phatak, D. R.
disc. (of Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, by Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060) with Atul Duggal, GT Jan. 93, p180-181

Pires, Jose A.
see Sun, Keming, GT Sept. 93, p1462-1479

Potts, David M.
see Dounias, George T., GT Dec. 93, p1870-1891

Poulos, Harry G.
Piled Rafts in Swelling or Consolidating Soils, GT Feb. 93, p374-380

Pradel, Daniel
Effect of Permeability on Surficial Stability of Homogeneous Slopes, with Glen Raad, GT Feb. 93, p315-332

Prasad, Y. V. S. N.
see Rao, S. Narasimha, GT Feb. 93, p352-357
see Rao, S. Narasimha, GT Apr. 93, p786-790

Puppala, Anand J.
Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, with Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001

Qian, Xuede
Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, with Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314

Raad, Glen
see Pradel, Daniel, GT Feb. 93, p315-332

Rajani, B.
Pipelines and Laterally Loaded Piles in Elasto-plastic Medium, with N. Morgenstern, GT Sept. 93, p1431-1448

Randolph, Brian W.
see Wu, Tien H., GT Jan. 93, p127-146

Randolph, Mark F.
see De Nicola, Anthony, GT Dec. 93, p1952-1973

Ranjan, Gopal
see Ghaly, Ashraf, GT Oct. 91, p1463-1470

Rao, S. Narasimha
Estimation of Uplift Capacity of Helical Anchors in Clays, with Y. V. S. N. Prasad, GT Feb. 93, p352-357
Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, with Y. V. S. N. Prasad, GT Apr. 93, p786-790

Rauch, Alan F.
Performance of Deep-Corrugated Steel Box-Type Culvert, with Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452

Raymond, G. P.
see Abdel-Baki, Sherif, (disc), GT Nov. 91, p1669-1690

Rees, Stephen William
Simulating Seasonal Ground Movement in Unsaturated Clay, with Hywel Rhys Thomas, GT July 93, p1127-1143

Reznik, Yakov M.
Plate-Load Tests of Collapsible Soils, GT Mar. 93, p608-615
disc. (of Generalized State Parameter for Partly Saturated Soils, by N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627), GT July 93, p1177-1179
disc. (of Hyperbolic Method for Consolidation Analysis, by Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737), GT Jan. 93, p187-190

Riccobono, Oraccio
see Juran, Ilan, GT July 91, p1042-1060

Richards, R., Jr.
Seismic Bearing Capacity and Settlements of Foundations, with D. G. Elms and M. Budhu, GT Apr. 93, p662-674

Robertson, P. K.
see Gu, W. H., GT Feb. 93, p333-349

Rogers, B. T.
see Jefferies, M. G., (disc), GT Aug. 92, p1200-1215

Rojas-Gonzalez, Luis
see DiGioia, Anthony M., Jr., (disc), GT June 92, p839-855

Ronold, Knut O.
Model Uncertainty Representation in Geotechnical Reliability Analyses, with Peter Bjerager, GT Mar. 92, p363-376
disc: Wilson H. Tang and Robert B. Gilbert, GT Nov. 93, p1859-1861
clo: GT Nov. 93, p1861-1862

Runesson, Kenneth
see Perić, Dunja, GT Apr. 93, p639-661

Rwebyogo, Mutabihirwa F. J.
see Charlie, Wayne A., GT Aug. 92, p1200-1215

Saran, Swami
Bearing Capacity of Eccentrically Obliquely Loaded Footing, with R. K. Agarwal, GT Nov. 91, p1669-1690
disc: Sherif Abdel-Baki and G. P. Raymond, GT Feb. 93, p394-396
disc: Ashraf Ghaly, Adel Hanna and Mohamed Abd El-Rahman, GT Feb. 93, p396-398
clo: GT Feb. 93, p398-400

Sargand, Shad M.
see Rauch, Alan F., GT Mar. 93, p433-452

Schmertmann, John H.
Conical Test Load Measuring Compressibility, GT May 93, p965-971

Schrøder, Knut
see Andersen, Knut H., GT Oct. 93, p1532-1549

Scott, R. F.
see Arulanandan, K., GT Aug. 93, p1276-1292

Seed, H. B.
see Arulanandan, K., GT Nov. 93, p1717-1731

Seed, H. Bolton
see Castro, Gonzalo, GT Mar. 92, p406-427

Seed, R. B.
see Arulanandan, K., GT Nov. 93, p1717-1731
see Duncan, J. M., GT Dec. 91, p1833-1847

Seed, Raymond B.
see Castro, Gonzalo, GT Mar. 92, p406-427

Sehn, A. L.
see Duncan, J. M., GT Dec. 91, p1833-1847

Selvadurai, A. P. S.
Frost Heave Induced Mechanics of Buried Pipelines, with S. B. Shinde, GT Dec. 93, p1929-1951

Senneset, Kare
see Puppala, Anand J., GT Dec. 93, p1990-2001

Shahien, M.
see Mesri, G., (disc), GT Dec. 91, p1833-1847

Shelley, Thomas L.
Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, with David E. Daniel, GT Jan. 93, p54-68

Sheng, Yuanjing
see Liang, Robert Y., GT June 93, p1037-1057

Shi, Lei
see Michalowski, Radoslaw L., GT Oct. 93, p1657-1669

Shinde, S. B.
see Selvadurai, A. P. S., GT Dec. 93, p1929-1951

Siddiqi, Farhat H.
see Fragaszy, Richard J., GT June 92, p920-935

Sikh, Tara S.
Swelling Soils, GT Apr. 93, p791-792

Sivakugan, N.
Anisotropy Studies on Cuboidal Shear Device, with J-L. Chameau and R. D. Holtz, GT June 93, p973-983

Smith, H. Allison
see Borja, Ronaldo I., GT May 93, p893-911

Smith, N. R.
see Davis, R. O., GT Mar. 93, p420-432

Sogge, R. L.
see Fishman, K. L., GT Aug. 93, p1293-1307

Sowers, George F.
Human Factors in Civil and Geotechnical Engineering Failures, GT Feb. 93, p238-256
disc. (of Effects of Freezing on Hydraulic Conductivity of Compacted Clay, by Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097), GT Nov. 93, p1864-1865

Stamatopoulos, Aris C.
see Kotzias, Panaghiotis C., GT May 93, p957-964

Sture, Stein
see Perić, Dunja, GT Apr. 93, p639-661

Su, James
see Fragaszy, Richard J., GT June 92, p920-935

Sun, Keming
Simplified Approach for Pile and Foundation Interaction Analysis, with Jose A. Pires, GT Sept. 93, p1462-1479

Tan, Siew-Ann
Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, with Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228
disc: Harry R. Cedergren, GT Feb. 93, p382-383
clo: GT Feb. 93, p383-384
err: GT June 93, p1072
Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, GT May 93, p950-956
disc. (of Performance of Test Embankment Constructed to Failure on Soft Marine Clay, by B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33), GT Aug. 93, p1323-1326

Tan, Thiam-Soon
Hyperbolic Method for Consolidation Analysis, with Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737
disc: W. David Carrier, III., GT Jan. 93, p186-187
disc: Yakov M. Reznik, GT Jan. 93, p187-190
clo: GT Jan. 93, p190

Tang, Wilson H.
disc. (of Model Uncertainty Representation in Geotechnical Reliability Analyses, by Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376) with Robert B. Gilbert, GT Nov. 93, p1859-1861
see Halim, Irwan S., GT Feb. 93, p195-213

Tay, Joo-Hwa
see Goh, Anthony T. C., GT May 93, p811-825

Thevanayagam, S.
Electrical Response of Two-Phase Soil: Theory and Applications, GT Aug. 93, p1250-1275

Thomann, Thomas G.
see Hryciw, Roman D., GT July 93, p1073-1093

Thomas, Hywel Rhys
see Rees, Stephen William, GT July 93, p1127-1143

Tseng, W.
see Wang, M. C., GT Oct. 93, p1672-1677

Ullrich, C. R.
see Hagerty, M. M., GT Jan. 93, p1-18

van Rhee, C.
Influence of Seepage on Stability of Sandy Slope, with A. Bezuijen, GT Aug. 92, p1236-1240
disc: P. de Buhan and L. Dormieux, GT Dec. 93, p2004-2006
clo: GT Dec. 93, p2006-2007

Vaziri, Hans
Impedance Functions of Piles in Inhomogeneous Media, with Yingcai Han, GT Sept. 93, p1414-1430

Vrymoed, John L.
disc. (of Steady-State Strength Analysis of Lower San Fernando Dam Slide, by Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427), GT Aug. 93, p1314-1317

Vucetic, Mladen
see Matasović, Neven, GT Nov. 93, p1805-1822

Wagg, B. T.
see Konrad, J.-M., GT May 93, p929-947

Walsh, Kenneth D.
Evaluation of In-Place Wetting Using Soil Suction Measurements, with William N. Houston and Sandra L. Houston, GT May 93, p862-873
see Houston, Sandra L., GT Apr. 93, p763-778

Wang, M. C.
Permeability Behavior of a Water Treatment Sludge, with W. Tseng, GT Oct. 93, p1672-1677

Wathugala, G. W.
Constitutive Model for Cyclic Behavior of Clays. I: Theory, with C. S. Desai, GT Apr. 93, p714-729
see Desai, C. S., GT Apr. 93, p730-748

Wey, J. L.
see Juang, C. H., GT Dec. 91, p1920-1931

Whitman, Robert V.
see Whittle, Andrew J., GT Jan. 93, p69-90

Whittle, Andrew J.
Analysis of Deep Excavation in Boston, with Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90

Williams, David John
see Wong, K. Y., GT Dec. 93, p1892-1909

Williams, G. W.
see Duncan, J. M., GT Dec. 91, p1833-1847

Wolf, John P.
see Meek, Jethro W., GT Oct. 93, p1499-1514

Wolff, Thomas F.
Probabilistic Assessment of Pile Interference, GT Mar. 93, p525-542

Wong, K. Y.
Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, with David John Williams, GT Dec. 93, p1892-1909

Woods, Richard D.
see Qian, Xuede, GT Feb. 93, p295-314

Wright, Stephen G.
see Jones, Norman L., GT Nov. 93, p1823-1839

Wu, Jonathan T. H.
see Monley, Gregory J., GT Apr. 93, p749-762

Wu, Tien H.
Stability of Shale Embankments, with Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146

Wu, Wen-Hwa
see Borja, Ronaldo I., GT May 93, p893-911

Wu, Xingqiang
see Kemeny, John M., GT July 93, p1144-1160

Wu, Yung-Kwang
see Daniel, David E., GT Feb. 93, p223-237

Xu, D. W.
see Chowdhury, R. N., GT Dec. 93, p1910-1928

Yamasaki, Kenji
see Huang, Scott L., GT Dec. 93, p1974-1987

Yanful, Ernest K.
Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, GT Aug. 93, p1207-1228

Yasuhara, Kazuya
see Hyde, Adrian F. L., GT Nov. 93, p1771-1789

Yogachandran, C.
see Arulanandan, K., GT Nov. 93, p1717-1731

Yong, Kwet-Yew
see Tan, Siew-Ann, GT Feb. 92, p209-228

Yu, Shinyuan
General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, with Panos Dakoulas, GT Oct. 93, p1568-1586

Yuan, Deren
Automated Surface Wave Method: Inversion Technique, with Soheil Nazarian, GT July 93, p1112-1126

Zaman, Musharraf
see Najjar, Yacoub, GT Nov. 93, p1790-1804

Zhang, Yaonian
Behavior of Large Bored Piles in Fuzhou, with Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589

Zhu, Fanyu
see Clark, Jack I., (disc), GT Aug. 92, p1200-1215

SUBJECT INDEX

Aggregates

Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Aggregation

Tropical Clays. I: Index Properties and Microstructural Aspects, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839.

Aging

Preconsolidation versus Aging Behavior of Kaolinite Clay, G. A. Athanasopoulos, GT June 93, p1060-1066.

Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Analysis

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Anchor plates

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Anchors

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Anisotropic soils

General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, Shinyuan Yu and Panos Dakoulas, GT Oct. 93, p1568-1586.

Anisotropy

Anisotropy Studies on Cuboidal Shear Device, N. Sivakugan, J-L. Chameau and R. D. Holtz, GT June 93, p973-983.

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Approximation methods

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

ASCE Awards & Prizes

Limitations of Conventional Analysis of Consolidation Settlement, J. Michael Duncan, GT Sept. 93, p1331-1359.

Axial loads

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Pile Group Settlement Analysis by Hybrid Layer Approach, C. Y. Lee, GT June 93, p984-997.

Backfills

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Bayesian analysis

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Beam columns

Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, John S. Horvath, GT Feb. 93, p358-364.

Beams

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Bearing capacity

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Behavior of Large Bored Piles in Fuzhou, Yaonian Zhang, Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589.

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

Numerical Evaluation of Terzaghi's N_γ, A. S. Kumbhojkar, GT Mar. 93, p598-607.

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Bed material

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Bifurcations

Prediction of Plastic Localization Using MRS-Lade Model, Dunja Perić, Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661.

Blasting

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Bored piles

Behavior of Large Bored Piles in Fuzhou, Yaonian Zhang, Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589.

Service Load of Short, Large-Diameter Bored Piles, J. Feda, GT Sept. 93, p1482-1489.

Boring

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Boundary element method

Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.

Braced excavation

Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Bridge abutments

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Bridge approaches

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Bridges

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Brittle failure

Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, Y. G. Hsuan, R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855.

Building codes

Expansion Potential According to *Uniform Building Code*, Robert W. Day, GT June 93, p1067-1071.

Buried pipes

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Calcareous sand

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Calcareous soils

Triaxial Testing of Naturally Cemented Carbonate Soil, D. W. Airey, GT Sept. 93, p1379-1398.

California bearing ratio

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Cantilevers

Behavior of Cantilever Retaining Walls, Anthony T. C. Goh, GT Nov. 93, p1751-1770.

Case reports

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Cementation

Triaxial Testing of Naturally Cemented Carbonate Soil, D. W. Airey, GT Sept. 93, p1379-1398.

Cements

Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.

Centrifuge model

Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Project Velacs—Control Test Results, K. Arulanandan and R. F. Scott, GT Aug. 93, p1276-1292.

Charts

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Clay liners

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Clay soils

Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Clays

Anisotropy Studies on Cuboidal Shear Device, N. Sivakugan, J-L. Chameau and R. D. Holtz, GT June 93, p973-983.

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Effective Cohesion for Compacted Clay, Robert W. Day, GT Apr. 92, p611-619.

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.

Limitations of Conventional Analysis of Consolidation Settlement, J. Michael Duncan, GT Sept. 93, p1331-1359.

Preconsolidation versus Aging Behavior of Kaolinite Clay, G. A. Athanasopoulos, GT June 93, p1060-1066.

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, Siew-Ann Tan, GT May 93, p950-956.

Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, Yit-Jin Chen and Fred H. Kulhawy, GT Nov. 93, p1732-1750.

Closed form solutions

Settlement of Pile Groups—Practical Approach, C. Y. Lee, GT Sept. 93, p1449-1461.

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Cofferdams

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Cohesion

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Effective Cohesion for Compacted Clay, Robert W. Day, GT Apr. 92, p611-619.

Significant Parameters in Elastoplastic Analysis of Underground Openings, Georgios Anagnostou and Kalman Kovari, GT Mar. 93, p401-419.

Cohesionless soils

Settlements of Shallow Foundations on Cohesionless Soils, Basil P. Papadopoulos, GT Mar. 92, p377-393.

Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.

Cohesive soils

Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Collapse load

Analysis of Delayed Failure in Sloping Excavations, D. V. Griffiths and C. O. Li, GT Sept. 93, p1360-1378.

Collapsible soils

Evaluation of In-Place Wetting Using Soil Suction Measurements, Kenneth D. Walsh, William N. Houston and Sandra L. Houston, GT May 93, p862-873.

Plate-Load Tests of Collapsible Soils, Yakov M. Reznik, GT Mar. 93, p608-615.

Columns

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Compacted soils
Conical Test Load Measuring Compressibility, John H. Schmertmann, GT May 93, p965-971.
Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.
Effective Cohesion for Compacted Clay, Robert W. Day, GT Apr. 92, p611-619.
Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.
Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Compaction
Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.
Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.

Compressibility
Conical Test Load Measuring Compressibility, John H. Schmertmann, GT May 93, p965-971.
Settlements of Shallow Foundations on Cohesionless Soils, Basil P. Papadopoulos, GT Mar. 92, p377-393.
Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.
Tropical Clays. II: Engineering Behavior, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861.

Compression
Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Compression index
Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

Compression tests
One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Computer aided drafting (CAD)
Subsurface Characterization With Solid Models, Norman L. Jones and Stephen G. Wright, GT Nov. 93, p1823-1839.

Computer applications
Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.

Computer programs
Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.
Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.
Wave Equation Parameters from Driven-Rod Test, Robert Y. Liang and Yuanjing Sheng, GT June 93, p1037-1057.

Computer software
Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Concrete
Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Cone penetration
Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.
Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Cone penetration tests
Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, Tahir Masood and James K. Mitchell, GT Oct. 93, p1624-1639.
Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Cone penetrometers
Analysis of Piezocone Dissipation Data Using Dislocation Methods, Derek Elsworth, GT Oct. 93, p1601-1623.

Consolidation
Analysis of Piezocone Dissipation Data Using Dislocation Methods, Derek Elsworth, GT Oct. 93, p1601-1623.
Anisotropy Studies on Cuboidal Shear Device, N. Sivakugan, J-L. Chameau and R. D. Holtz, GT June 93, p973-983.
Conical Test Load Measuring Compressibility, John H. Schmertmann, GT May 93, p965-971.
Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.
Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.
Limitations of Conventional Analysis of Consolidation Settlement, J. Michael Duncan, GT Sept. 93, p1331-1359.
Project Velacs—Control Test Results, K. Arulanandan and R. F. Scott, GT Aug. 93, p1276-1292.
Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Consolidation, soils
Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.
Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.
Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Constitutive models
Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Construction methods
Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Control
Simplified Dynamic Method for Pile-Driving Control, Robert Y. Liang and Abdallah I. Husein, GT Apr. 93, p694-713.

Correlation analysis
Swelling Soils, Tara S. Sikh, GT Apr. 93, p791-792.

Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, Yit-Jin Chen and Fred H. Kulhawy, GT Nov. 93, p1732-1750.

Corrugating
Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Coverings
Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Cracking
Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, Y. G. Hsuan, R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855.

Cracks
Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Creep
Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

New Perspectives on Soil Creep, Matthew R. Kuhn and James K. Mitchell, GT Mar. 93, p507-524.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Crushing
One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Culverts
Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Curing
Effective Cohesion for Compacted Clay, Robert W. Day, GT Apr. 92, p611-619.

Cyclic loads
Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Cyclic Response of Axially Loaded Pile Groups, C. Y. Lee, GT Sept. 93, p1399-1413.

Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Cyclic tests
Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Dam failure
Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Dam stability
Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Dams
Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Dams, earth
Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

Debris

Conical Test Load Measuring Compressibility, John H. Schmertmann, GT May 93, p965-971.

Deflection

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Deformation

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Degradation

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Densification

Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Density

Triaxial Testing of Naturally Cemented Carbonate Soil, D. W. Airey, GT Sept. 93, p1379-1398.

Desiccation

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Design

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.

Service Load of Short, Large-Diameter Bored Piles, J. Feda, GT Sept. 93, p1482-1489.

Diaphragm wall

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Dielectric constant

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Differential settlement

Limitations of Conventional Analysis of Consolidation Settlement, J. Michael Duncan, GT Sept. 93, p1331-1359.

Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Diffusion coefficient

Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Digital techniques

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Discrete elements

New Perspectives on Soil Creep, Matthew R. Kuhn and James K. Mitchell, GT Mar. 93, p507-524.

Displacement

Analysis of Piezocone Dissipation Data Using Dislocation Methods, Derek Elsworth, GT Oct. 93, p1601-1623.

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Displacements

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Ditches

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Downdrag

Pile Groups under Negative Skin Friction, C. Y. Lee, GT Oct. 93, p1587-1600.

Drainage

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Dynamic analysis

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Dynamic loads

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Dynamic pile driving formulas

Simplified Dynamic Method for Pile-Driving Control, Robert Y. Liang and Abdallah I. Husein, GT Apr. 93, p694-713.

Dynamic response

Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, Lun Ma and Ching S. Chang, GT Nov. 93, p1679-1695.

Dynamic tests

Dynamic Tests of Pipe Pile in Saturated Peat, C. B. Crouse, Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567.

Dynamics

Impedance Functions of Piles in Inhomogeneous Media, Hans Vaziri and Yingcai Han, GT Sept. 93, p1414-1430.

Earth fills

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Earth pressure

Behavior of Cantilever Retaining Walls, Anthony T. C. Goh, GT Nov. 93, p1751-1770.

Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Earth reinforcement

Field Behavior of Instrumented Geogrid Soil Reinforced Wall, K. L. Fishman, C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307.

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Earthquake damage

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Earthquake engineering

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Earthquake magnitude scale

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Earthquakes

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Project Velacs—Control Test Results, K. Arulanandan and R. F. Scott, GT Aug. 93, p1276-1292.

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Earthwork

Subsurface Characterization With Solid Models, Norman L. Jones and Stephen G. Wright, GT Nov. 93, p1823-1839.

Eccentric loading

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Effective stress

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Slope Failure Analysis Using Local Minimum Factor-of-Safety Approach, Scott L. Huang and Kenji Yamasaki, GT Dec. 93, p1974-1987.

Elastic analysis

Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Elastic foundations

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Elastic moduli

General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, Shinyuan Yu and Panos Dakoulas, GT Oct. 93, p1568-1586.

Elastic properties

General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, Shinyuan Yu and Panos Dakoulas, GT Oct. 93, p1568-1586.

Elastoplasticity

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

Significant Parameters in Elastoplastic Analysis of Underground Openings, Georgios Anagnostou and Kalman Kovari, GT Mar. 93, p401-419.

Electrical conductivity

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Embankment stability

Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Embankments

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Embedment

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Engineering profession

Human Factors in Civil and Geotechnical Engineering Failures, George F. Sowers, GT Feb. 93, p238-256.

Estimating

Estimating Autocovariance of In-Situ Soil Properties, Don J. DeGroot and Gregory B. Baecher, GT Jan. 93, p147-166.

Estimation

Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, Tahir Masood and James K. Mitchell, GT Oct. 93, p1624-1639.

Excavation

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Analysis of Delayed Failure in Sloping Excavations, D. V. Griffiths and C. O. Li, GT Sept. 93, p1360-1378.

Expansion

Expansion Potential According to *Uniform Building Code*, Robert W. Day, GT June 93, p1067-1071.

Expansive clays

Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.

Expansive soils

Expansion Potential According to *Uniform Building Code*, Robert W. Day, GT June 93, p1067-1071.

Explosives

Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Failure modes

Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Influence of Seepage on Stability of Sandy Slope, C. van Rhee and A. Bezuijen, GT Aug. 92, p1236-1240.

Failure surface

Effect of Permeability on Surficial Stability of Homogeneous Slopes, Daniel Pradel and Glen Raad, GT Feb. 93, p315-332.

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Numerical Evaluation of Terzaghi's N_γ, A. S. Kumbhojkar, GT Mar. 93, p598-607.

Failures

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Human Factors in Civil and Geotechnical Engineering Failures, George F. Sowers, GT Feb. 93, p238-256.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Fibers

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Field investigations

Field Behavior of Instrumented Geogrid Soil Reinforced Wall, K. L. Fishman, C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307.

Field tests

Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, Tahir Masood and James K. Mitchell, GT Oct. 93, p1624-1639.

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Service Load of Short, Large-Diameter Bored Piles, J. Feda, GT Sept. 93, p1482-1489.

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Fills

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Filters

Washout of Grains from Filtered Sand and Gravel Materials, B. Aberg, GT Jan. 93, p36-53.

Filters, digital

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Finegrained soils

Soil-Fabric Measurement Using Phase Transition Porosimetry, Brett W. Gunnink and Jalal El-Jayyousi, GT June 93, p1019-1036.

Finite element method

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Behavior of Cantilever Retaining Walls, Anthony T. C. Goh, GT Nov. 93, p1751-1770.

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Finite elements

Analysis of Delayed Failure in Sloping Excavations, D. V. Griffiths and C. O. Li, GT Sept. 93, p1360-1378.

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Flexibility

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Flow patterns

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Fly ash

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Footings

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Numerical Evaluation of Terzaghi's N_γ, A. S. Kumbhojkar, GT Mar. 93, p598-607.

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Foundation design

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Plate-Load Tests of Collapsible Soils, Yakov M. Reznik, GT Mar. 93, p608-615.

Foundation settlement

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Foundations

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Approximate Green's Function for Surface Foundations, Jethro W. Meek and John P. Wolf, GT Oct. 93, p1499-1514.

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Freeze-thaw cycle

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Frequency analysis

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Friction

Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Friction resistance

Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.

Frost heave

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

Full-scale tests

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Fuzzy sets

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

Geological anomalies

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Geology

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Geosynthetics

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Geotechnical models

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Geotextiles

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, Y. G. Hsuan, R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855.

Grain size

Washout of Grains from Filtered Sand and Gravel Materials, B. Åberg, GT Jan. 93, p36-53.

Granular materials

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Granular media

Instability of Granular Soils Under Strain Path Testing, J. Chu, S-C. R. Lo and I. K. Lee, GT May 93, p874-892.

One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Graphic techniques

Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

Gravel

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Greens function

Approximate Green's Function for Surface Foundations, Jethro W. Meek and John P. Wolf, GT Oct. 93, p1499-1514.

Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Grid systems

Field Behavior of Instrumented Geogrid Soil Reinforced Wall, K. L. Fishman, C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307.

Ground motion

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Ground water

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Grouting

EPB Shield Tunneling in Mixed Face Conditions, G. Wayne Clough and Eric Leca, GT Oct. 93, p1640-1656.

Half space

Approximate Green's Function for Surface Foundations, Jethro W. Meek and John P. Wolf, GT Oct. 93, p1499-1514.

Helixes

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Hong Kong

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Horizontal loads

Anisotropy Studies on Cuboidal Shear Device, N. Sivakugan, J-L. Chameau and R. D. Holtz, GT June 93, p973-983.

Human factors

Human Factors in Civil and Geotechnical Engineering Failures, George F. Sowers, GT Feb. 93, p238-256.

Hydraulic conductivity

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Hydrodynamics

Washout of Grains from Filtered Sand and Gravel Materials, B. Aberg, GT Jan. 93, p36-53.

Image analysis

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Impedance

Dynamic Tests of Pipe Pile in Saturated Peat, C. B. Crouse, Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567.

Impedance Functions of Piles in Inhomogeneous Media, Hans Vaziri and Yingcai Han, GT Sept. 93, p1414-1430.

In situ tests

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Wave Equation Parameters from Driven-Rod Test, Robert Y. Liang and Yuanjing Sheng, GT June 93, p1037-1057.

Incineration

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Inclusions

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Indexing

Expansion Potential According to *Uniform Building Code*, Robert W. Day, GT June 93, p1067-1071.

Infiltration

Evaluation of In-Place Wetting Using Soil Suction Measurements, Kenneth D. Walsh, William N. Houston and Sandra L. Houston, GT May 93, p862-873.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Instrumentation

Field Behavior of Instrumented Geogrid Soil Reinforced Wall, K. L. Fishman, C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307.

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, K. Y. Wong and David John Williams, GT Dec. 93, p1892-1909.

Interaction models

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Interactions

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.

Settlement of Pile Groups—Practical Approach, C. Y. Lee, GT Sept. 93, p1449-1461.

Intrusion

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Isotropic material

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Kinematics

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Laboratory tests

Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.

Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Laminates

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Land reclamation

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Landfills

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Landslides

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Lateral loads

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Lateral pressure

Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Lateral stress

Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, Tahir Masood and James K. Mitchell, GT Oct. 93, p1624-1639.

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Layered soils

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Layered systems

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Leaching

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Leakage

Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, Udaya B. Halabe and Kenneth R. Maser, GT Mar. 93, p563-582.

Lime

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Limit analysis

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Limit design

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Limit equilibrium

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Numerical Evaluation of Terzaghi's N_γ, A. S. Kumbhojkar, GT Mar. 93, p598-607.

Rational Polynomial Technique in Slope Reliability Analysis, R. N. Chowdhury and D. W. Xu, GT Dec. 93, p1910-1928.

Liners

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Liquefaction

Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Project Velacs—Control Test Results, K. Arulanandan and R. F. Scott, GT Aug. 93, p1276-1292.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Liquid limit

Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

Tropical Clays. I: Index Properties and Microstructural Aspects, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839.

Liquids

Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, Lun Ma and Ching S. Chang, GT Nov. 93, p1679-1695.

Load tests

Behavior of Large Bored Piles in Fuzhou, Yaonian Zhang, Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589.

Conical Test Load Measuring Compressibility, John H. Schmertmann, GT May 93, p965-971.

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Plate-Load Tests of Collapsible Soils, Yakov M. Reznik, GT Mar. 93, p608-615.

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Load transfer

Behavior of Large Bored Piles in Fuzhou, Yaonian Zhang, Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589.

Cyclic Response of Axially Loaded Pile Groups, C. Y. Lee, GT Sept. 93, p1399-1413.

Pile Groups under Negative Skin Friction, C. Y. Lee, GT Oct. 93, p1587-1600.

Loading

Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Marine clays

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Mat foundations

Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, John S. Horvath, GT Feb. 93, p358-364.

Mathematical models

Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, John S. Horvath, GT Feb. 93, p358-364.

Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, Udaya B. Halabe and Kenneth R. Maser, GT Mar. 93, p563-582.

Mathematics

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Measurement

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Soil-Fabric Measurement Using Phase Transition Porosimetry, Brett W. Gunnink and Jalal El-Jayyousi, GT June 93, p1019-1036.

Mine wastes

Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Model tests

Bearing Capacity of Eccentrically Obliquely Loaded Footing, Swami Saran and R. K. Agarwal, GT Nov. 91, p1669-1690.

Model verification

Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Modeling

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Models

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, Shinyuan Yu and Panos Dakoulas, GT Oct. 93, p1568-1586.

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

New Perspectives on Soil Creep, Matthew R. Kuhn and James K. Mitchell, GT Mar. 93, p507-524.

Mohr-Coulomb theory

Significant Parameters in Elastoplastic Analysis of Underground Openings, Georgios Anagnostou and Kalman Kovari, GT Mar. 93, p401-419.

Monitoring

Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.

Municipal wastes

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Natural frequency

Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, Lun Ma and Ching S. Chang, GT Nov. 93, p1679-1695.

Negative skin friction

Pile Groups under Negative Skin Friction, C. Y. Lee, GT Oct. 93, p1587-1600.

Nondestructive tests

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Nonlinear analysis

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Pile Groups under Negative Skin Friction, C. Y. Lee, GT Oct. 93, p1587-1600.

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Nonlinear response

Cyclic Response of Axially Loaded Pile Groups, C. Y. Lee, GT Sept. 93, p1399-1413.

Pile Group Settlement Analysis by Hybrid Layer Approach, C. Y. Lee, GT June 93, p984-997.

Numerical analysis

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Numerical Evaluation of Terzaghi's N_γ, A. S. Kumbhojkar, GT Mar. 93, p598-607.

Rational Polynomial Technique in Slope Reliability Analysis, R. N. Chowdhury and D. W. Xu, GT Dec. 93, p1910-1928.

Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Numerical models

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Overconsolidation

Preconsolidation versus Aging Behavior of Kaolinite Clay, G. A. Athanasopoulos, GT June 93, p1060-1066.

Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, Yit-Jin Chen and Fred H. Kulhawy, GT Nov. 93, p1732-1750.

Oxygen

Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Parameters

Generalized State Parameter for Partly Saturated Soils, N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627.

Significant Parameters in Elastoplastic Analysis of Underground Openings, Georgios Anagnostou and Kalman Kovari, GT Mar. 93, p401-419.

Particle size

One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Particles

One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Peat

Dynamic Tests of Pipe Pile in Saturated Peat, C. B. Crouse, Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567.

Performance evaluation

Performance of Test Embankment Constructed to Failure on Soft Marine Clay, B. Indraratna, A. S. Balasubramaniam and S. Balachandran, GT Jan. 92, p12-33.

Permeability

Analysis of Piezocone Dissipation Data Using Dislocation Methods, Derek Elsworth, GT Oct. 93, p1601-1623.

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners, Thomas L. Shelley and David E. Daniel, GT Jan. 93, p54-68.

Effect of Permeability on Surficial Stability of Homogeneous Slopes, Daniel Pradel and Glen Raad, GT Feb. 93, p315-332.

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Tropical Clays. I: Index Properties and Microstructural Aspects, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839.

Tropical Clays. II: Engineering Behavior, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861.

Permeability tests

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Piers

Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, K. Y. Wong and David John Williams, GT Dec. 93, p1892-1909.

Piezometers

Analysis of Piezocone Dissipation Data Using Dislocation Methods, Derek Elsworth, GT Oct. 93, p1601-1623.

Pile bearing capacities

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Simplified Dynamic Method for Pile-Driving Control, Robert Y. Liang and Abdallah I. Husein, GT Apr. 93, p694-713.

Pile caps

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Pile driving

Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.

Simplified Dynamic Method for Pile-Driving Control, Robert Y. Liang and Abdallah I. Husein, GT Apr. 93, p694-713.

Wave Equation Parameters from Driven-Rod Test, Robert Y. Liang and Yuanjing Sheng, GT June 93, p1037-1057.

Pile groups

Cyclic Response of Axially Loaded Pile Groups, C. Y. Lee, GT Sept. 93, p1399-1413.

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Pile Group Settlement Analysis by Hybrid Layer Approach, C. Y. Lee, GT June 93, p984-997.

Pile Groups under Negative Skin Friction, C. Y. Lee, GT Oct. 93, p1587-1600.

Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.

Settlement of Pile Groups—Practical Approach, C. Y. Lee, GT Sept. 93, p1449-1461.

Pile load tests

Constitutive Model for Cyclic Behavior of Clays. I: Theory, G. W. Wathugala and C. S. Desai, GT Apr. 93, p714-729.

Constitutive Model for Cyclic Behavior of Clays. II: Applications, C. S. Desai, G. W. Wathugala and H. Matlock, GT Apr. 93, p730-748.

Pile settlement

Settlement of Pile Groups—Practical Approach, C. Y. Lee, GT Sept. 93, p1449-1461.

Pile tests

Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Piles

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Impedance Functions of Piles in Inhomogeneous Media, Hans Vaziri and Yingcai Han, GT Sept. 93, p1414-1430.

Interaction of Axial and Lateral Pile Responses, Christos Anagnostopoulos and Michael Georgiadis, GT Apr. 93, p793-798.

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Pipelines

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Plane strain

Prediction of Plastic Localization Using MRS-Lade Model, Dunja Perić, Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661.

Plasticity

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Prediction of Plastic Localization Using MRS-Lade Model, Dunja Perić, Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Plates

Plate-Load Tests of Collapsible Soils, Yakov M. Reznik, GT Mar. 93, p608-615.

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Polyethylene

Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, Y. G. Hsuan, R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855.

Pore pressure

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Pore size distribution

Soil-Fabric Measurement Using Phase Transition Porosimetry, Brett W. Gunnink and Jalal El-Jayyousi, GT June 93, p1019-1036.

Tropical Clays. I: Index Properties and Microstructural Aspects, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839.

Pore water

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Pore water pressure

Instability of Granular Soils Under Strain Path Testing, J. Chu, S-C. R. Lo and I. K. Lee, GT May 93, p874-892.

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Porosity

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Soil-Fabric Measurement Using Phase Transition Porosimetry, Brett W. Gunnink and Jalal El-Jayyousi, GT June 93, p1019-1036.

Preconsolidation pressure

Preconsolidation versus Aging Behavior of Kaolinite Clay, G. A. Athanasopoulos, GT June 93, p1060-1066.

Probability

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Rational Polynomial Technique in Slope Reliability Analysis, R. N. Chowdhury and D. W. Xu, GT Dec. 93, p1910-1928.

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Probability distribution functions

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Probability theory

Probabilistic Assessment of Pile Interference, Thomas F. Wolff, GT Mar. 93, p525-542.

Professional practice

Human Factors in Civil and Geotechnical Engineering Failures, George F. Sowers, GT Feb. 93, p238-256.

Profiles

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Progressive failure

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Pull-out resistance

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Uplift Behavior of Pile Anchors Subjected to Lateral Cyclic Loading, S. Narasimha Rao and Y. V. S. N. Prasad, GT Apr. 93, p786-790.

Quality control

Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Radial flow

Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, Siew-Ann Tan, GT May 93, p950-956.

Radiation

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Raft foundations

Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.

Reinforcement

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Reliability

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Reliability analysis

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Rational Polynomial Technique in Slope-Reliability Analysis, R. N. Chowdhury and D. W. Xu, GT Dec. 93, p1910-1928.

Residual soils

Tropical Clays. II: Engineering Behavior, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861.

Residual strength

Centrifuge Study on Volume Changes and Dynamic Stability of Earth Dams, K. Arulanandan, H. B. Seed, C. Yogachandran, K. K. Muraleetharan, R. B. Seed and K. Kabilamany, GT Nov. 93, p1717-1731.

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Resistance

Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.

Response spectra

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Retaining walls

Behavior of Cantilever Retaining Walls, Anthony T. C. Goh, GT Nov. 93, p1751-1770.

Field Behavior of Instrumented Geogrid Soil Reinforced Wall, K. L. Fishman, C. S. Desai and R. L. Sogge, GT Aug. 93, p1293-1307.

Rock mechanics

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Significant Parameters in Elastoplastic Analysis of Underground Openings, Georgios Anagnostou and Kalman Kovari, GT Mar. 93, p401-419.

Rocks

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Rods

Wave Equation Parameters from Driven-Rod Test, Robert Y. Liang and Yuanjing Sheng, GT June 93, p1037-1057.

Safety

Slope Failure Analysis Using Local Minimum Factor-of-Safety Approach, Scott L. Huang and Kenji Yamasaki, GT Dec. 93, p1974-1987.

Salts

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Sampling

Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

San Francisco

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Sand

Cone Penetration in Cemented Sands: Bearing Capacity Interpretation, Anand J. Puppala, Yalcin B. Acar and Kare Senneset, GT Dec. 93, p1990-2001.

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Drainage Efficiency of Sand Layer in Layered Clay-Sand Reclamation, Siew-Ann Tan, Kee-Ming Liang, Kwet-Yew Yong and Seng-Lip Lee, GT Feb. 92, p209-228.

Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Influence of Seepage on Stability of Sandy Slope, C. van Rhee and A. Bezuijen, GT Aug. 92, p1236-1240.

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

Prediction of Plastic Localization Using MRS-Lade Model, Dunja Perić, Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661.

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Washout of Grains from Filtered Sand and Gravel Materials, B. Aberg, GT Jan. 93, p36-53.

Sand boils

Liquefaction Sand Boils in San Francisco during 1989 Loma Prieta Earthquake, J. P. Bardet and M. Kapuskar, GT Mar. 93, p543-562.

Sands

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Sandwich panels

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Saturation

Dynamic Tests of Pipe Pile in Saturated Peat, C. B. Crouse, Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567.

Sediment

Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

Seepage

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Effect of Permeability on Surficial Stability of Homogeneous Slopes, Daniel Pradel and Glen Raad, GT Feb. 93, p315-332.

Influence of Seepage on Stability of Sandy Slope, C. van Rhee and A. Bezuijen, GT Aug. 92, p1236-1240.

Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Washout of Grains from Filtered Sand and Gravel Materials, B. Aberg, GT Jan. 93, p36-53.

Seismic cone penetration tests

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Seismic effects

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Seismic response

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Seismic waves

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, Udaya B. Halabe and Kenneth R. Maser, GT Mar. 93, p563-582.

Service loads

Service Load of Short, Large-Diameter Bored Piles, J. Feda, GT Sept. 93, p1482-1489.

Settlement analysis

Deformation Analysis of Embankments, N. Loganathan, A. S. Balasubramaniam and D. T. Bergado, GT Aug. 93, p1185-1206.

Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.

Limitations of Conventional Analysis of Consolidation Settlement, J. Michael Duncan, GT Sept. 93, p1331-1359.

Pile Group Settlement Analysis by Hybrid Layer Approach, C. Y. Lee, GT June 93, p984-997.

Project Velacs—Control Test Results, K. Arulanandan and R. F. Scott, GT Aug. 93, p1276-1292.

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Settlement of Pile Groups—Practical Approach, C. Y. Lee, GT Sept. 93, p1449-1461.

Settlements of Shallow Foundations on Cohesionless Soils, Basil P. Papadopoulos, GT Mar. 92, p377-393.

Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, Siew-Ann Tan, GT May 93, p950-956.

Settlement control

EPB Shield Tunneling in Mixed Face Conditions, G. Wayne Clough and Eric Leca, GT Oct. 93, p1640-1656.

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Shaft resistance, piles

Mechanisms of Shaft Friction in Sand from Instrumented Pile Tests, B. M. Lehane, R. J. Jardine, A. J. Bond and R. Frank, GT Jan. 93, p19-35.

Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, K. Y. Wong and David John Williams, GT Dec. 93, p1892-1909.

Shafts

Analysis of Laterally Loaded Shafts in Rock, John P. Carter and Fred H. Kulhawy, GT June 92, p839-855.

Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Shale

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Shallow foundations

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Settlements of Shallow Foundations on Cohesionless Soils, Basil P. Papadopoulos, GT Mar. 92, p377-393.

Shape

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Shear

Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Shear modulus

Preconsolidation versus Aging Behavior of Kaolinite Clay, G. A. Athanasopoulos, GT June 93, p1060-1066.

Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Shear strength

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Effect of Permeability on Surficial Stability of Homogeneous Slopes, Daniel Pradel and Glen Raad, GT Feb. 93, p315-332.

Effective Cohesion for Compacted Clay, Robert W. Day, GT Apr. 92, p611-619.

Generalized State Parameter for Partly Saturated Soils, N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Tropical Clays. II: Engineering Behavior, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861.

Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, Yit-Jin Chen and Fred H. Kulhawy, GT Nov. 93, p1732-1750.

Shear stress

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Shear tests

Anisotropy Studies on Cuboidal Shear Device, N. Sivakugan, J-L. Chameau and R. D. Holtz, GT June 93, p973-983.

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Shields, tunneling

EPB Shield Tunneling in Mixed Face Conditions, G. Wayne Clough and Eric Leca, GT Oct. 93, p1640-1656.

Shrinkage

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Silts

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Silty soils

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Simple shear tests

Cyclic Characterization of Liquefiable Sands, Neven Matasović and Mladen Vucetic, GT Nov. 93, p1805-1822.

Simulation

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Site investigation

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Site Exploration Strategy for Geologic Anomaly Characterization, Irwan S. Halim and Wilson H. Tang, GT Feb. 93, p195-213.

Subsurface Characterization With Solid Models, Norman L. Jones and Stephen G. Wright, GT Nov. 93, p1823-1839.

Size effect

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Sliding

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Slip surface

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Slope Failure Analysis Using Local Minimum Factor-of-Safety Approach, Scott L. Huang and Kenji Yamasaki, GT Dec. 93, p1974-1987.

Slope stability

Analysis of Delayed Failure in Sloping Excavations, D. V. Griffiths and C. O. Li, GT Sept. 93, p1360-1378.

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Cohesion Intercept in Effective Stress-Stability Analysis, G. Mesri and M. E. M. Abdel-Ghaffar, GT Aug. 93, p1229-1249.

Effect of Permeability on Surficial Stability of Homogeneous Slopes, Daniel Pradel and Glen Raad, GT Feb. 93, p315-332.

Influence of Seepage on Stability of Sandy Slope, C. van Rhee and A. Bezuijen, GT Aug. 92, p1236-1240.

Rational Polynomial Technique in Slope-Reliability Analysis, R. N. Chowdhury and D. W. Xu, GT Dec. 93, p1910-1928.

Slope Failure Analysis Using Local Minimum Factor-of-Safety Approach, Scott L. Huang and Kenji Yamasaki, GT Dec. 93, p1974-1987.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Sludge

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Soaking

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Soft soils

EPB Shield Tunneling in Mixed Face Conditions, G. Wayne Clough and Eric Leca, GT Oct. 93, p1640-1656.

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Soil classification

Scaling PSV from Earthquake Magnitude, Local Soil, and Geologic Depth of Sediments, V. W. Lee, GT Jan. 93, p108-126.

Soil compaction

Compacted Clay Liners and Covers for Arid Sites, David E. Daniel and Yung-Kwang Wu, GT Feb. 93, p223-237.

Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.

Soil compressibility

Generalized State Parameter for Partly Saturated Soils, N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627.

Soil conditions

Generalized State Parameter for Partly Saturated Soils, N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627.

Soil deformation

Plate-Load Tests of Collapsible Soils, Yakov M. Reznik, GT Mar. 93, p608-615.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Soil dynamics

Approximate Green's Function for Surface Foundations, Jethro W. Meek and John P. Wolf, GT Oct. 93, p1499-1514.

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Soil freezing tests

Effects of Freezing on Hydraulic Conductivity of Compacted Clay, Woon-Hyung Kim and David E. Daniel, GT July 92, p1083-1097.

Soil layers

Bearing Capacity of Nonhomogeneous Clay Layers under Embankments. Radoslaw L. Michalowski and Lei Shi, GT Oct. 93, p1657-1669.

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Soil mechanics

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Estimation Earth Pressures Due to Compaction, J. M. Duncan, G. W. Williams, A. L. Sehn and R. B. Seed, GT Dec. 91, p1833-1847.

New Perspectives on Soil Creep, Matthew R. Kuhn and James K. Mitchell, GT Mar. 93, p507-524.

Settlements of Shallow Foundations on Cohesionless Soils, Basil P. Papadopoulos, GT Mar. 92, p377-393.

Soil modulus

Settlement of Circular and Ring Plates in Very Dense Calcareous Sands, Hasan A. Al-Sanad, Nabil F. Ismael and R. Peter Brenner, GT Apr. 93, p622-638.

Soil properties

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.

Estimating Autocovariance of In-Situ Soil Properties, Don J. DeGroot and Gregory B. Baecher, GT Jan. 93, p147-166.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Soil stability

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Soil stabilization

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Soil structure

Soil-Fabric Measurement Using Phase Transition Porosimetry, Brett W. Gunnink and Jalal El-Jayyousi, GT June 93, p1019-1036.

Soil suction

Evaluation of In-Place Wetting Using Soil Suction Measurements, Kenneth D. Walsh, William N. Houston and Sandra L. Houston, GT May 93, p862-873.

Stability of Shale Embankments, Tien H. Wu, Brian W. Randolph and Chiung-Shiann Huang, GT Jan. 93, p127-146.

Soil swelling

Swelling Soils, Tara S. Sikh, GT Apr. 93, p791-792.

Soil tests

Expansion Potential According to *Uniform Building Code*, Robert W. Day, GT June 93, p1067-1071.

Swelling Soils, Tara S. Sikh, GT Apr. 93, p791-792.

Soil water

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Soil-pile interaction

Impedance Functions of Piles in Inhomogeneous Media, Hans Vaziri and Yingcai Han, GT Sept. 93, p1414-1430.

Kinematic Seismic Response of Single Piles and Pile Groups, Ke Fan, George Gazetas, Amir Kaynia, Eduardo Kausel and Shahid Ahmad, GT Dec. 91, p1860-1879.

Pile Group Settlement Analysis by Hybrid Layer Approach, C. Y. Lee, GT June 93, p984-997.

Piled Rafts in Swelling or Consolidating Soils, Harry G. Poulos, GT Feb. 93, p374-380.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Simplified Approach for Pile and Foundation Interaction Analysis, Keming Sun and Jose A. Pires, GT Sept. 93, p1462-1479.

Soil-pipe interaction

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

Soils

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Electrical Response of Two-Phase Soil: Theory and Applications, S. Thevanayagam, GT Aug. 93, p1250-1275.

Estimation of In-Situ Lateral Stresses in Soils by Cone Penetration Test, Tahir Masood and James K. Mitchell, GT Oct. 93, p1624-1639.

Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Seismic Bearing Capacity and Settlements of Foundations, R. Richards, Jr., D. G. Elms and M. Budhu, GT Apr. 93, p662-674.

Soils, saturated

Generalized State Parameter for Partly Saturated Soils, N. S. Pandian, T. S. Nagaraj and G. L. Siva Kumar Babu, GT Apr. 92, p622-627.

Soils, unsaturated

Evaluation of In-Place Wetting Using Soil Suction Measurements, Kenneth D. Walsh, William N. Houston and Sandra L. Houston, GT May 93, p862-873.

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Soil-structure interaction

Approximate Green's Function for Surface Foundations, Jethro W. Meek and John P. Wolf, GT Oct. 93, p1499-1514.

Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, John S. Horvath, GT Feb. 93, p358-364.

Behavior of Cantilever Retaining Walls, Anthony T. C. Goh, GT Nov. 93, p1751-1770.

Elastic Solutions for Arbitrarily Shaped Foundations, K. S. Li, GT June 92, p938-942.

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, Lun Ma and Ching S. Chang, GT Nov. 93, p1679-1695.

Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Solar radiation

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Solid waste disposal

Municipal Solid-Waste Incinerator Fly Ash for Geotechnical Applications, Anthony T. C. Goh and Joo-Hwa Tay, GT May 93, p811-825.

Spatial data

Estimating Autocovariance of In-Situ Soil Properties, Don J. DeGroot and Gregory B. Baecher, GT Jan. 93, p147-166.

Spectral analysis

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Splitting

Analysis of Rock Fragmentation Using Ditigal Image Processing, John M. Kemeny, Ashutosh Devgan, Roberta M. Hagaman and Xingqiang Wu, GT July 93, p1144-1160.

Stability

Design Charts for Double-Walled Cofferdams, Sunirmal Banerjee, GT Feb. 93, p214-222.

Instability of Granular Soils Under Strain Path Testing, J. Chu, S-C. R. Lo and I. K. Lee, GT May 93, p874-892.

Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, K. Y. Wong and David John Williams, GT Dec. 93, p1892-1909.

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Static Instability and Liquefaction of Loose Fine Sandy Slopes, Poul V. Lade, GT Jan. 92, p51-71.

Washout of Grains from Filtered Sand and Gravel Materials, B. Aberg, GT Jan. 93, p36-53.

Stability analysis

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Stability criteria

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Stabilization

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Reinforcing Soft Soils with Artificially Cemented Compacted-Sand Columns, Ilan Juran and Oraccio Riccobono, GT July 91, p1042-1060.

Static loads

Behavior of Large Bored Piles in Fuzhou, Yaonian Zhang, Yiming Gong, Chun Liu and Guidung Ma, GT Mar. 93, p584-589.

Static tests

Field Tests of Anchors in Clay. I: Description, Rune Dyvik, Knut H. Andersen, Svein Borg Hansen and Hans Peter Christophersen, GT Oct. 93, p1515-1531.

Statistical analysis

Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Probability Distributions for Hydraulic Conductivity of Compacted Soil Liners, Craig H. Benson, GT Mar. 93, p471-486.

Service Load of Short, Large-Diameter Bored Piles, J. Feda, GT Sept. 93, p1482-1489.

Statistics

Estimating Autocovariance of In-Situ Soil Properties, Don J. DeGroot and Gregory B. Baecher, GT Jan. 93, p147-166.

Steady state

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Steady-State Strength Analysis of Lower San Fernando Dam Slide, Gonzalo Castro, Raymond B. Seed, Thomas O. Keller and H. Bolton Seed, GT Mar. 92, p406-427.

Steel

Performance of Deep-Corrugated Steel Box-Type Culvert, Alan F. Rauch, Shad M. Sargand and Glenn A. Hazen, GT Mar. 93, p433-452.

Steel pipe piles

Dynamic Tests of Pipe Pile in Saturated Peat, C. B. Crouse, Steven L. Kramer, Robert Mitchell and Behnam Hushmand, GT Oct. 93, p1550-1567.

Stiffness

Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Stiffness methods

Settlement Analysis of Layered Soil Systems by the Stiffness Method, Enrico Conte and Giovanni Dente, GT Apr. 93, p780-785.

Storage tanks

Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, Udaya B. Halabe and Kenneth R. Maser, GT Mar. 93, p563-582.

Pressures Exerted on Soil Due to Rocking of Liquid Storage Tanks, Lun Ma and Ching S. Chang, GT Nov. 93, p1679-1695.

Strain

Frost Heave Induced Mechanics of Buried Pipelines, A. P. S. Selvadurai and S. B. Shinde, GT Dec. 93, p1929-1951.

Instability of Granular Soils Under Strain Path Testing, J. Chu, S-C. R. Lo and I. K. Lee, GT May 93, p874-892.

Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Strain rate

New Perspectives on Soil Creep, Matthew R. Kuhn and James K. Mitchell, GT Mar. 93, p507-524.

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Strain softening

Progressive Failure of Lower San Fernando Dam, W. H. Gu, N. R. Morgenstern and P. K. Robertson, GT Feb. 93, p333-349.

Stress

Cyclic Response of Axially Loaded Pile Groups, C. Y. Lee, GT Sept. 93, p1399-1413.

Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Numerical Analysis of Drained Direct and Simple Shear Tests, George T. Dounias and David M. Potts, GT Dec. 93, p1870-1891.

Stress-Cracking Resistance of High-Density Polyethylene Geomembranes, Y. G. Hsuan, R. M. Koerner and A. E. Lord, Jr., GT Nov. 93, p1840-1855.

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Stress history

Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.

Stress strain relations, soils

General Stress-Dependent Elastic Moduli for Cross-Anisotropic Soils, Shinyuan Yu and Panos Dakoulas, GT Oct. 93, p1568-1586.

Structural settlement

Evaluation of In-Place Wetting Using Soil Suction Measurements, Kenneth D. Walsh, William N. Houston and Sandra L. Houston, GT May 93, p862-873.

Structures
Structural Stiffness Influence on Soil Consolidation, Rusk Masih, GT Jan. 93, p168-172.

Struts
Seepage and Soil-Structure Interaction Effects in Braced Excavations, Sunil S. Kishnani and Ronaldo I. Borja, GT May 93, p912-928.

Subgrades
Beam-Column-Analogy Model for Soil-Structure Interaction Analysis, John S. Horvath, GT Feb. 93, p358-364.

Prediction of Bedding Intrusion into Low-Strength Subgrades, M. E. Orman and E. A. Nowatzki, GT Feb. 93, p365-373.

Subsidence
Subsidence Effects on Embankments: Combined Empirical-FEM Approach, Eric C. Drumm, William F. Kane and Anthony C. Orlowski, GT Jan. 93, p173-178.

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Subsurface investigations
Estimating Autocovariance of In-Situ Soil Properties, Don J. DeGroot and Gregory B. Baecher, GT Jan. 93, p147-166.

Foundation Studies in a Fault Zone and a Steep Valley Slope, James L. Kaufman and Alfred H. Brand, (*Detection of and Construction at the Soil/Rock Interface*, William F. Kane, ed. and Bernard Amadei, ed., 1991), p73-90.

Surcharge
Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, Siew-Ann Tan, GT May 93, p950-956.

Surface waves
Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Swelling
Swelling Soils, Tara S. Sikh, GT Apr. 93, p791-792.

Swelling pressure
Swelling Soils, Tara S. Sikh, GT Apr. 93, p791-792.

Tailings
Oxygen Diffusion through Soil Covers on Sulphidic Mine Tailings, Ernest K. Yanful, GT Aug. 93, p1207-1228.

Taper
Axial Response of Tapered Piles in Cohesive Frictional Ground, Jayantha K. Kodikara and Ian D. Moore, GT Apr. 93, p675-693.

Technology assessment
Human Factors in Civil and Geotechnical Engineering Failures, George F. Sowers, GT Feb. 93, p238-256.

Temperature
Time-Dependent Cone Penetration Resistance Due to Blasting, Wayne A. Charlie, Mutabihirwa F. J. Rwebyogo and Donald O. Doehring, GT Aug. 92, p1200-1215.

Tensile loading
Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Tensile strength
Tensile Reinforcement Effects on Bridge-Approach Settlement, Gregory J. Monley and Jonathan T. H. Wu, GT Apr. 93, p749-762.

Tension leg platforms
Field Tests of Anchors in Clay. II: Predictions and Interpretation, Knut H. Andersen, Rune Dyvik, Knut Schrøder, Ole E. Hansteen and Steinar Bysveen, GT Oct. 93, p1532-1549.

Terrain models
Subsurface Characterization With Solid Models, Norman L. Jones and Stephen G. Wright, GT Nov. 93, p1823-1839.

Testing
Field Quality Control on Earthdam: Statistical Graphics for Gauging, Panaghiotis C. Kotzias, Aris C. Stamatopoulos and Panayotis J. Kountouris, GT May 93, p957-964.

Tests
Moduli and Damping Factors of Soft Marine Clays, Takaaki Kagawa, GT Sept. 92, p1360-1375.

Three-dimensional models
Subsurface Characterization With Solid Models, Norman L. Jones and Stephen G. Wright, GT Nov. 93, p1823-1839.

Time factors
Hyperbolic Method for Consolidation Analysis, Thiam-Soon Tan, Toshiyuki Inoue and Seng-Lip Lee, GT Nov. 91, p1723-1737.

Transient response
Analysis of Delayed Failure in Sloping Excavations, D. V. Griffiths and C. O. Li, GT Sept. 93, p1360-1378.

Triaxial tests
Instability of Granular Soils Under Strain Path Testing, J. Chu, S-C. R. Lo and I. K. Lee, GT May 93, p874-892.

Laboratory and Field Leaching Tests on Coastal Salt-Bearing Soils, Nabil F. Ismael, GT Mar. 93, p453-470.

Modeling Strength of Sandy Gravel, Richard J. Fragaszy, James Su, Farhat H. Siddiqi and Carlton L. Ho, GT June 92, p920-935.

Prediction of Plastic Localization Using MRS-Lade Model, Dunja Perić, Kenneth Runesson and Stein Sture, GT Apr. 93, p639-661.

Reinforcement of Soils by Multioriented Geosynthetic Inclusions, Evert C. Lawton, Milind V. Khire and Nathaniel S. Fox, GT Feb. 93, p257-275.

Stability Criteria for Marine Clay Under One-Way Cyclic Loading, Adrian F. L. Hyde, Kazuya Yasuhara and Kazutoshi Hirao, GT Nov. 93, p1771-1789.

Triaxial Testing of Naturally Cemented Carbonate Soil, D. W. Airey, GT Sept. 93, p1379-1398.

Undrained Cyclic Loading of Anisotropically Consolidated Clayey Silts, J.-M. Konrad and B. T. Wagg, GT May 93, p929-947.

Undrained Strength Interrelationships Among CIUC, UU, and UC Tests, Yit-Jin Chen and Fred H. Kulhawy, GT Nov. 93, p1732-1750.

Tropical soils

Tropical Clays. I: Index Properties and Microstructural Aspects, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p826-839.

Tropical Clays. II: Engineering Behavior, N. S. Pandian, T. S. Nagaraj and G. L. Sivakumar Babu, GT May 93, p840-861.

Tunnel construction

EPB Shield Tunneling in Mixed Face Conditions, G. Wayne Clough and Eric Leca, GT Oct. 93, p1640-1656.

Ultimate loads

Model for Capacity of Single Piles in Sand Using Fuzzy Sets, C. H. Juang, J. L. Wey and D. J. Elton, GT Dec. 91, p1920-1931.

P-Ultimate for Undrained Analysis of Laterally Loaded Piles, James D. Murff and Jed M. Hamilton, GT Jan. 93, p91-107.

Ultraviolet radiation

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Uncertainty analysis

Model Uncertainty Representation in Geotechnical Reliability Analyses, Knut O. Ronold and Peter Bjerager, GT Mar. 92, p363-376.

Underground construction

Analysis of Deep Excavation in Boston, Andrew J. Whittle, Youssef M. A. Hashash and Robert V. Whitman, GT Jan. 93, p69-90.

Underground mines

Surface Subsidence Prediction by Nonlinear Finite-Element Analysis, Yacoub Najjar and Musharraf Zaman, GT Nov. 93, p1790-1804.

Underground structures

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Uplift

Estimation of Uplift Capacity of Helical Anchors in Clays, S. Narasimha Rao and Y. V. S. N. Prasad, GT Feb. 93, p352-357.

Helical Anchors in Dry and Submerged Sand Subjected to Surcharge, Ashraf Ghaly, Adel Hanna, Gopal Ranjan and Mikhail Hanna, GT Oct. 91, p1463-1470.

Pipelines and Laterally Loaded Piles in Elastoplastic Medium, B. Rajani and N. Morgenstern, GT Sept. 93, p1431-1448.

Tensile and Compressive Shaft Capacity of Piles in Sand, Anthony De Nicola and Mark F. Randolph, GT Dec. 93, p1952-1973.

Uplift pressure

Force-Displacement Behavior of Flexible Plate Anchors, Majdi A. Othman and Tuncer B. Edil, GT Mar. 93, p590-597.

Uplift resistance

Methods of Interpreting Structural Incompatibility in Bored Pier Uplift Test, K. Y. Wong and David John Williams, GT Dec. 93, p1892-1909.

Velocity

Digital Filtering Techniques for Interpreting Seismic Cone Data, Erick J. Baziw, GT June 93, p998-1018.

Stability of Motions of Translational Landslides, R. O. Davis, C. S. Desai and N. R. Smith, GT Mar. 93, p420-432.

Vertical drains

Smear Effects of Vertical Drains on Soft Bangkok Clay, Dennes T. Bergado, Hiroshi Asakami, Marolo C. Alfaro and A. S. Balasubramaniam, GT Oct. 91, p1509-1530.

Ultimate Settlement by Hyperbolic Plot for Clays with Vertical Drains, Siew-Ann Tan, GT May 93, p950-956.

Vertical loads

Vertical Earth Loads on Buried Engineered Works, C. Gary Kellogg, GT Mar. 93, p487-506.

Vibration

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Impedance Functions of Piles in Inhomogeneous Media, Hans Vaziri and Yingcai Han, GT Sept. 93, p1414-1430.

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Viscoplasticity

Nonlinear Response of Vertically Oscillating Rigid Foundations, Ronaldo I. Borja, Wen-Hwa Wu and H. Allison Smith, GT May 93, p893-911.

Void ratio

Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

One-Dimensional High-Pressure Compression of Granular Media, M. M. Hagerty, D. R. Hite, C. R. Ullrich and D. J. Hagerty, GT Jan. 93, p1-18.

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Voids and Granulometry: Effects on Shear Modulus of Unsaturated Sands, Xuede Qian, Donald H. Gray and Richard D. Woods, GT Feb. 93, p295-314.

Volume change

Simulating Seasonal Ground Movement in Unsaturated Clay, Stephen William Rees and Hywel Rhys Thomas, GT July 93, p1127-1143.

Walls

Backfill-Stiffened Foundation Wall Design, Robert Nicholls, GT Nov. 92, p1822-1836.

Water content

Comparison of Rock Correction Methods for Compaction of Clayey Soils, Sandra L. Houston and Kenneth D. Walsh, GT Apr. 93, p763-778.

Equations for Compression Index Approximation, A. W. N. Al-Khafaji and O. B. Andersland, GT Jan. 92, p148-153.

Water distribution

Hydraulic Conductivity of Compacted Clay Frozen and Thawed in Situ, Craig H. Benson and Majdi A. Othman, GT Feb. 93, p276-294.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Water treatment

Permeability Behavior of a Water Treatment Sludge, M. C. Wang and W. Tseng, GT Oct. 93, p1672-1677.

Wave equations

Simplified Dynamic Method for Pile-Driving Control, Robert Y. Liang and Abdallah I. Husein, GT Apr. 93, p694-713.

Wave Equation Parameters from Driven-Rod Test, Robert Y. Liang and Yuanjing Sheng, GT June 93, p1037-1057.

Wave propagation

Leak Detection from Large Storage Tanks Using Seismic Boundary Waves, Udaya B. Halabe and Kenneth R. Maser, GT Mar. 93, p563-582.

Pipeline Damage Due to Wave Propagation, Michael O'Rourke and Gustavo Ayala, GT Sept. 93, p1490-1498.

Stress-History–Based Model for G^e of Cohesionless Soils, Roman D. Hryciw and Thomas G. Thomann, GT July 93, p1073-1093.

Wave velocity

Automated Surface Wave Method: Field Testing, Soheil Nazarian and Milind R. Desai, GT July 93, p1094-1111.

Automated Surface Wave Method: Inversion Technique, Deren Yuan and Soheil Nazarian, GT July 93, p1112-1126.

Waves

Earth Dam–Canyon Interaction Effects for Obliquely Incident SH Waves, Panos Dakoulas, GT Nov. 93, p1696-1716.

Weathering

Durability of Geotextiles to Outdoor Exposure in Hong Kong, Edward W. Brand and P. L. Richard Pang, GT July 91, p979-1000.

Yield

Triaxial Testing of Naturally Cemented Carbonate Soil, D. W. Airey, GT Sept. 93, p1379-1398.